

RAW SEQUENCE LISTING

DATE: 01/14/2002

PATENT APPLICATION: US/10/018,627

TIME: 07:40:00

Input Set : A:\W118591.txt

Output Set: N:\CRF3\01142002\J018627.raw

4 <110> APPLICANT: The Government of the United States of America ...
6 <120> TITLE OF INVENTION: Isolation of a Human Retrovirus
8 <130> FILE REFERENCE: 14114.0331P1
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/018,627
C--> 11 <141> CURRENT FILING DATE: 2001-12-14
13 <150> PRIOR APPLICATION NUMBER: 60/139,219
14 <151> PRIOR FILING DATE: 1999-06-14
16 <160> NUMBER OF SEQ ID NOS: 7
18 <170> SOFTWARE: PatentIn Ver. 2.0
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 613
22 <212> TYPE: DNA
23 <213> ORGANISM: Foamy retrovirus
25 <400> SEQUENCE: 1
26 caatagatgg agtatttcoct gttacaacac cagatctaag gtgcagaatt attaatgcta 60
27 tactaggagg aaacttaggg ttatcattaa cccagcaga ctgtgtaaca tgggactctg 120
28 cagtaggcac actatttgta agaaccatg gacaatttcc aatgcatcag cttgggactg 180
29 taatacaagg aatagttaac caagaaggag tggcaacagc atatactttg ggaatgatgc 240
30 tttctggaca aaattatcca ttagtctcag gaattattcg gggatatttg cctggacaag 300
31 ctgtagtaac tgctttacaa cagcgcctag atcaagaagt agacgatcaa gcgcgagcag 360
32 aaacctttat tcaacatcta aatgctgtat atgaaatttt aggccttaat gccagaggac 420
33 agagtatacg tgcttcagtg actcctcagc cccgaccgtc tagaggtaga ggtcagaggc 480
34 aaagtactcc tagaccctct caaggaccag ctagtagcgg acgtggacga cagcgtcctg 540
35 cttctggtca atacgacaga ggatctaata atcaaaatca aaatcaagga aatacaagtc 600
36 aaggaggata taa 613
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 616
40 <212> TYPE: DNA
41 <213> ORGANISM: Foamy retrovirus
43 <400> SEQUENCE: 2
44 cagcaataga tggagtattt cctgtttacaa caccagatct aaggtgcaga attattaatg 60
45 ctatactagg aggaaactta gggttatcat taacccagc agactgtgta acatgggact 120
46 ctgcagtagg cacactattt gtaagaaccc atggacaatt tccaatgcat cagcttgga 180
47 ctgtaataga aggaatagtt aaccaagaag gagtggcaac agcatatact ttgggaatga 240
48 tgctttctgg acaaaattat ccattagtct caggaattat tcggggatat ttgcctggac 300
49 aagctgtagt aactgcttta caacagcgc tagatcaaga agtagacgat caagcgcgag 360
50 cagaaacctt tattcaacat ctaaatgctg tatatgaaat tttaggcctt aatgccagag 420
51 gacagagtat acgtgcttca gtgactcctc agccccgacc gtctagagggt agaggtcgag 480
52 gccaaagtac tcctagaccc tctcaaggac cagctagtag cggacgtgga cgacagcgtc 540
53 ctgcttctgg tcaatacgac agaggatcta ataatacaaa tcaaaatcaa ggaaatacaa 600
54 gtcaaggagg atataa 616
58 <210> SEQ ID NO: 3
59 <211> LENGTH: 425
60 <212> TYPE: DNA
61 <213> ORGANISM: Foamy retrovirus
63 <400> SEQUENCE: 3
64 aattattaca ggggtcaaat gtaaaaggat atcctaaaca atatacatat tttttagaag 60

ENTERED

RAW SEQUENCE LISTING

DATE: 01/14/2002

PATENT APPLICATION: US/10/018,627

TIME: 07:40:00

Input Set : A:\W118591.txt

Output Set: N:\CRF3\01142002\J018627.raw

```

65 atggcacaagt aaaagtttcc agacctgaag ggggttaaagt tattccccca caatcagacc 120
66 gacaaaaaat agtgcttcaa gcccataatt tagcccacac cggacgtgaa gccactcttt 180
67 taaaaattgc caacctttac tgggtggccaa atatgaggaa ggatgtgggt aaacaactag 240
68 gacgttgcca gcagtgttta atcacaaatg cttccaacaa agcctctggg cccatattaa 300
69 gaccagatag gcctcaaaaag ccttttgata aattttttat tgattatatt ggacctttgc 360
70 caccttcaca aggatatctt tatgtattag ttgttggtga tggaatgaca ggatttacat 420
71 ggtta 425
73 <210> SEQ ID NO: 4
74 <211> LENGTH: 425
75 <212> TYPE: DNA
76 <213> ORGANISM: Foamy retrovirus
78 <400> SEQUENCE: 4
79 aattattaca gggcacaat gtaaaaggat atcctaaaca atatacatatc tttttagaag 60
80 atggcacaagt aaaagtttcc agacctgaag ggggttaaagt tattccccca caatcagacc 120
81 gacaaaaaat agtgcttcaa gcccataatt tagcccacac cggacgtgaa gccactcttt 180
82 taaaaattgc caacctttac tgggtggccaa atatgaggaa ggatgtgggt aaacaactag 240
83 gacgttgcca gcagtgttta atcacaaatg cttccaacaa agcctctggg cccatattaa 300
84 gaccagatag gcctcaaaaag ccttttgata aattttttat tgattatatt ggacctttgc 360
85 caccttcaca aggatatctt tatgtattag ttgttggtga tggaatgaca ggatttacat 420
86 ggtta 425
88 <210> SEQ ID NO: 5
89 <211> LENGTH: 240
90 <212> TYPE: DNA
91 <213> ORGANISM: Foamy retrovirus
93 <400> SEQUENCE: 5
94 ttatgtttta aagtaatcta tgaaggagct atgagtcaaa aacaagaaca aaagagctgg 60
95 ctatgtatag taggacatgg ccacgcacat ggggcttatg aatatacgag aatagattta 120
96 tatgctatga aaaagggaaa agaaaacccc tatggagaaa ggggagatgt agctttgcaa 180
97 tatgcttata aggttaaaaag aggctgtaaa gcaggatgct tagcttcaca agtgcttaac 240
99 <210> SEQ ID NO: 6
100 <211> LENGTH: 240
101 <212> TYPE: DNA
102 <213> ORGANISM: Foamy retrovirus
104 <400> SEQUENCE: 6
105 ttatgtttta aagtaatcta tgaaggagcc atgggtcaaa aacaagagca aaaaagctgg 60
106 ctatgcaggc taggacatgg ccacogtatg ggtgcttatg actatcgag agtagattta 120
107 tatgctatga aaaagggaaa agaaaacccc tatggagaaa ggggagatgt agctttgcaa 180
108 tatgcttata aggttaaaaag aggctgcaaa gcaggatgct tagcttcacc agtgcttaac 240
110 <210> SEQ ID NO: 7
111 <211> LENGTH: 3576
112 <212> TYPE: DNA
113 <213> ORGANISM: Foamy retrovirus
116 <400> SEQUENCE: 7
117 tttttacatc ttgaagactg cagaagacaa gattatgtca tatgtgatgt ggtaaagata 60
118 gtacagcctt gtggcaatag ctacagacag agtgactgtc ctgtctgggc tgaggctgta 120
119 aaagaacatc ttgtgcaagt gaatcctctg aaaaacggaa gttatctggg tttagcaagc 180
120 tccactgact gccagatccc accatatggt cctagcattg tgactgttaa cgaaacaaca 240
121 tcgtgttatg gactggactt taaaaggcca ctagttgcgg aagaaagatt gagctttgag 300
122 ccacgactgc caaatctaca gctcagatta ccacatttgg taggaattat tgcaaaaatt 360

```

RAW SEQUENCE LISTING

DATE: 01/14/2002

PATENT APPLICATION: US/10/018,627

TIME: 07:40:00

Input Set : A:\W118591.txt

Output Set: N:\CRF3\01142002\J018627.raw

123	aaagggataa	aaatagaagt	tacatcctct	ggagaaagta	taaaagacca	gattgaaaga	420
124	gcaaaagctg	agcttcttcg	tctggacatc	cacgaaggag	atactcctgc	ctggatacaa	480
125	caactcgctg	cagcaacaag	agccgttttg	ccagcagccg	cctctgctct	acaaggaatt	540
126	gggaactttc	tatctggggc	tgcccaagga	atattttggaa	ctgccttttag	tattttggga	600
127	tattttaaagc	ctatcctcat	aggtgtgggg	gtcattcttt	tgatcattct	tatatttaag	660
128	attgtatcat	ggattcctac	caagaagaag	aatcagtagc	ctccacctct	ggcattcaga	720
129	acctgcagac	tcttagtgag	cttggttggtc	ctgaaaatgc	tgagagggga	gagctagtta	780
130	ttgctgaaga	acctgaagaa	aatcctcggc	gtcctaaaag	atacactaaa	agagaagtta	840
131	aatgtgtatc	ctaccatgcc	tatagagaac	ttgaggaaaa	acatcctcaa	cacatcaagc	900
132	tccaagactg	gattcccaca	cctgaagaaa	tgagtaagtc	actttgtaca	agactaatct	960
133	tatgtggact	atatagtgc	gagaaggcag	gggaaatatt	acggatgcct	tttacagtat	1020
134	cttgggaaca	atcagacact	gactctaaat	gttttattgt	gagttacaca	tgtatatctt	1080
135	gtgatgctat	aatacatgac	cctatgcccc	taatgtggga	tcctgagggtc	aagatatggg	1140
136	taaaatataa	acccctcaga	ggaattgttg	gatctgctgt	gtttatcatg	cataaacatc	1200
137	aaagaaactg	ttcttttgtt	aaaccttcta	ctagttactc	agaagggtcca	aaaccaagac	1260
138	ctaggcacga	tcctgtcctt	cgatgtgaca	tgtttgaaaa	gcatacacaag	cctcgggaga	1320
139	aacgacccag	gaaacgatcc	atcgataatg	agtcattgtc	ttccagtagt	gacaccttgg	1380
140	ccaatgagcc	aggatcacta	tgcaccaacc	ctctttggaa	tcctggatca	ctactacaag	1440
141	gagtgttga	agaatccagc	aacttttcaa	acttggaaag	tcacatgtca	ggtggaccct	1500
142	tctgggaaga	ggtttatggg	gactcaattt	tggtgcccc	ctctgggtca	ggtgaacatt	1560
143	cagttttata	aaaattacca	aatttttaact	tgctgtcagg	ctgtagatcc	atttgcta	1620
144	atctttcatg	gtactgatga	tgaaatgtat	gatattgatt	caggacctga	tgtttggtgt	1680
145	accccttctt	tatgttttaa	agtaatctat	gagggagcta	ttggtcaaaa	acaagaacaa	1740
146	aagagctggc	tatgtagatt	aggacatggc	catcgcatgg	gggcttatga	atatcgcaga	1800
147	atagatttat	atgctatgaa	aaagggaaaa	gaaaaccctt	atggagaaag	gggagatgta	1860
148	gctttgcaat	atgcttatca	ggttaaaaga	ggctgtaaag	caggatgctt	agcttcacaa	1920
149	gtgcttaact	tcaaagctct	gcagttccac	agaaccctta	tggtcgacct	caccaatcct	1980
150	agattggaga	gggacatctt	gcctcatggc	tatcaggcag	ctatggaagc	ttatggacct	2040
151	cagagaggaa	gtagcgaggga	gaggggtgtg	tggaatgcca	ctagaaatca	aggaagagat	2100
152	ggggagtatt	acagagaagg	aggtgaagag	cctcattatc	cgaatactcc	agccctcctc	2160
153	aaaaagacct	gggatgaaag	acataagggtc	cttaagttgt	cctcattcgc	tactccctct	2220
154	gacatccaac	gctgggctac	cagagcactg	ccatatggct	ggaaagtagt	tactgaggca	2280
155	ggggatgact	atactagccg	cagaaaaatc	agaacgctga	cagatatgac	tcaggatgaa	2340
156	attagacaaa	gatgggaaag	gggatactgt	gaccctttca	ttgactcagg	aagtgactca	2400
157	gatggacccc	tgtaaaagcc	acaagcagta	aaagtgtgtt	aacacttttag	acagtattat	2460
158	atttgcttaa	gcattaaaa	ctttcatata	ctcagtagct	gtttcacaat	caacaaaaca	2520
159	atgatgatgt	aatcataagg	aagttagttta	aaataggtta	agtaagttta	ctgcagtaga	2580
160	taatccctgg	ggaggatctg	gctctgtaag	ctggaacagc	aatgttttca	gttccagtcc	2640
161	tctcaaagga	gaaccacagg	gatgatgcgt	tagttcgaat	cccattatcc	tcattggtcc	2700
162	cttttccaca	ttttataatg	taagttttag	ggataagttt	tatatgagct	ttactaatcc	2760
163	ttgaagggaag	aatagctctt	caggtaaaga	ggccagtatt	aaaagagcta	cccttctttt	2820
164	ttatataagg	atcgaaacct	gctttacgtt	ttgctttaat	gaagctaagt	tttaagtttt	2880
165	aacaggaaat	gctcttaggc	agaaggtagc	tcctctgact	gggtgacaag	aagaaaccat	2940
166	tcagggaagt	cttcttctg	ctcggggaga	tacatgagta	tacagtagtt	cgagtctctg	3000
167	gtgctgatgt	tgtcttctcg	gctcttttgt	gacatcaca	atgtaacct	gaggtagtct	3060
168	tttaagaggt	ttttacctca	ggaaggagtg	tggtctaatac	tggttaaggca	cctaactatc	3120
169	agtacattta	agtcatttcc	tccccatgtt	ctcaggggtg	gtgcggcgta	agatcgaatc	3180
170	cccacacacc	cgggaaactg	cttattgcat	aaogttttta	ttagtcatat	agaaaataat	3240
171	ataggataag	agataggaat	taaagcatga	ggtgtgtggc	tcaacacgta	gagtgacaag	3300

RAW SEQUENCE LISTING

DATE: 01/14/2002

PATENT APPLICATION: US/10/018,627

TIME: 07:40:00

Input Set : A:\W118591.txt

Output Set: N:\CRF3\01142002\J018627.raw

172	gaactctact	gtaataggac	acaacacctc	taaagttgcc	cgtgggaagg	tgaagtgaga	3360
173	tcgaatcttt	ccttaacgca	ggcagctttt	tatccactag	ggataatggt	ttaaggaata	3420
174	ttatagtaat	agattgatag	ctttaacaat	gtagaaata	gtatatagga	ataagatgta	3480
175	gattgtacga	gagctcctca	ctactcgctg	cgtcgagagt	gtatgagact	ctccagggtt	3540
176	ggtaagaata	tttttattgt	tattatgata	cattaa			3576

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/018,627

DATE: 01/14/2002

TIME: 07:40:01

Input Set : A:\W118591.txt

Output Set: N:\CRF3\01142002\J018627.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

11/14/02